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# GPR52 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19491b

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q9Y2T5 |
| **Other Accession** | P0C5J4, A6QLE7, NP_005675.3 |
| **Reactivity** | Human |
| **Predicted** | Bovine, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB40646 |
| **Calculated MW** | 41354 |
| **Antigen Region** | 218-245 |

## Additional Information

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| **Gene ID** | 9293 |
| **Other Names** | Probable G-protein coupled receptor 52, GPR52 |
| **Target/Specificity** | This GPR52 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 218-245 amino acids from the C-terminal region of human GPR52. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | GPR52 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | GPR52 {ECO:0000303\|PubMed:9931487, ECO:0000312\|HGNC:HGNC:4508} |
| **Function** | Gs-coupled receptor activated by antipsychotics reserpine leading to an increase in intracellular cAMP and its internalization (PubMed:24587241). May play a role in locomotor activity through modulation of dopamine, NMDA and |

ADORA2A-induced locomotor activity. These behavioral changes are accompanied by modulation of the dopamine receptor signaling pathway in striatum (PubMed:24587241). Modulates HTT level via cAMP-dependent but PKA independent mechanisms throught activation of RAB39B that translocates HTT to the endoplasmic reticulum, thus avoiding proteasome degradation (PubMed:25738228).

**Cellular Location** Cell membrane; Multi-pass membrane protein.

**Tissue Location** Expressed in brain, especially in striatum.

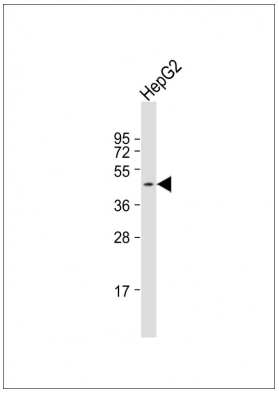
## Background

Members of the G protein-coupled receptor (GPR) family play important roles in signal transduction from the external environment to the inside of the cell.

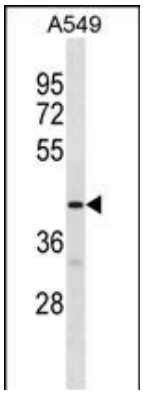
## References

Sawzdargo, M., et al. Brain Res. Mol. Brain Res. 64(2):193-198(1999)

## Images




Anti-GPR52 Antibody (C-term) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




GPR52 Antibody (C-term) (Cat. #AP19491b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the GPR52 antibody detected the GPR52 protein (arrow).